



PATENT
ATTORNEY DOCKET NO.: JHU1900-1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

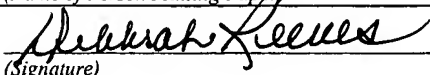
Applicant(s): Andrew P. Feinberg Art Unit: Not Yet Assigned
Application No.: 10/629,318 Examiner: Not Yet Assigned
Filed: July 28, 2003
Title: METHODS FOR IDENTIFYING CANCER RISK

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL SHEET

Transmitted herewith for the above-identified application please find:

1. Information Disclosure Statement (2 pages);
2. Form PTO-1449 (3 pages);
3. Twenty-Nine (29) References; and
4. Return Receipt Postcard.


CERTIFICATION UNDER 37 CFR §1.8	
I hereby certify that the documents referred to as enclosed herein are being deposited with the United States Postal Service as first class mail on this date, November 25, 2003, in an envelope addressed to: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.	
Debbrah Reeves (Name of Person Mailing Paper)	
 (Signature)	November 25, 2003 (Date)

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Page 2

No fee is deemed necessary in connection with the filing of this Information Disclosure Statement,[because it is being filed prior to the receipt of a first office action on the merits of the above-captioned application. However, if any fee is required, authorization is hereby given to charge the amount of any such fee to Deposit Account No. 50-1355. A duplicate copy of this Transmittal sheet is enclosed.

Respectfully submitted,

Date: November 25, 2003


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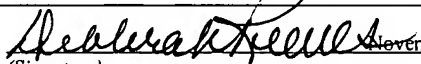
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INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. § 1.97, enclosed are references relating to the above-identified application. For the convenience of the Examiner, these references are listed on the attached Form PTO-1449 and copies are enclosed herewith.

It is respectfully requested that these references be considered in the examination of this application and their consideration be made of written record in the application file.

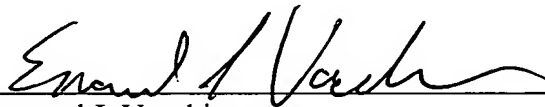
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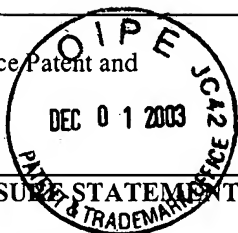
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FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office	Docket No. JHU1900-1 (104659-258)	Serial No.: 10/629,318
	Applicant(s): Andrew P. Feinberg	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Filing Date: July 28, 2003	Group Art Unit: Not Yet Assigned



U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA	5,552,277	09/03/1996	Nelson et al.			
	AB	5,786,146	07/28/1998	Herman et al.			
	AC	6,235,474B1	05/22/2001	Feinberg			

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION (YES/NO)

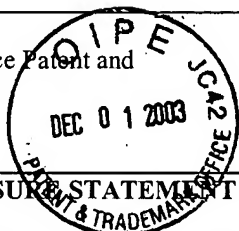
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

	AD	Ravenel, J.D., et al., <i>J. Natl. Cancer Inst.</i> Vol. 93, 2001, Pgs. 1698-1703
	AE	Rainer et al., <i>Nature</i> , Vol. 362, 1993, Pgs. 747-749
	AF	Feinberg, A.P. and Vogelstein, B., "Hypomethylation Distinguishes Genes of Some Human Cancers From Their Normal Counterparts," <i>Nature</i> (Lond.), Vol. 301, 1983, Pgs. 89-92
	AG	Feinberg, A.P., et al. "Reduced Genomic 5-Methylcytosine Content in Human Colonic Neoplasia," <i>Cancer Res.</i> , Vol. 48, 1988, Pgs. 1159-1161
	AH	Ogawa, O., et al., "Relaxation of Insulin-Like Growth Factor II Gene Imprinting Implicated in Wilm's Tumour," <i>Nature</i> (Lond.), Vol. 362, 1993, Pgs. 749-751
	AI	Steenman, M. J., et al., "Loss of Imprinting of IGF2 is Linked to Reduced Expression and Abnormal Methylation of H19 in Wilms' Tumour, <i>Nat. Genet.</i> , Vol. 7, 1994, Pgs. 433-439

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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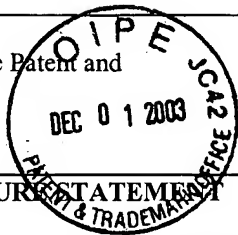


AJ	Uegima, H., et al., "Hot-Stop PCR: a Simple and General Assay for Linear Quantitation of Allele Ratios," <i>Nat. Genet.</i> , Vol. 25, 2000, Pgs. 375-376
AK	Sullivan, M.J., et al., "Relaxation of IGF2 Imprinting in Wilms Tumours Associated with Specific Changes in IGF2 Methylation," <i>Oncogene</i> , Vol. 18, 1999, Pgs. 7527-7534
AL	Moore, T, et al., "Multiple Imprinted Sense and Antisense Transcripts, Differential Methylation and Tandem Repeats in a Putative Imprinting Control Region Upstream of Mouse <i>IGF²</i> ," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 94, November, 1997, Pgs. 12509-12514
AM	Issa, Jean-Pierre J., et al., "Switch from Monoallelic to Biallelic Human <i>IGF²</i> Promoter Methylation During Aging and Carcinogenesis," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 93, October 1996, Pgs. 11757-11762
AN	Nakagawa, H., et al., "Loss of Imprinting of the Insulin-Like Growth Factor II Gene Occurs by Biallelic Methylation in a Core Region of <i>H19</i> -Associated CTCF-binding Sites in Colorectal Cancer," <i>Proc. Natl. Acad. Sci. USA</i> , January 16, 2001, Vol. 98, No. 2, Pgs. 591-596
AO	Lee, M.P., et al., "Loss of Imprinting of a Paternally Expressed Transcript, with Antisense Orientation to KvLQT1, Occurs Frequently in Beckwith-Wiedemann Syndrome and is Independent of Insulin-Like Growth Factor II Imprinting," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 96, April 1999, Pgs. 5203-5208
AP	Cui, Hengmi, et al., "Loss of Imprinting of <i>Insulin-like Growth Factor-II</i> in Wilms' Tumor Commonly Involves Altered Methylation but not Mutations of <i>CTCF</i> or Its Binding Site ¹ ," <i>Cancer Research</i> , Vol. 61, July 1, 2001, Pgs. 4947-4950
AQ	Takai, Daiya, et al., "Large Scale Mapping of Methylcytosines in CTCF-binding Sites in the Human <i>H19</i> Promoter and Aberrant Hypomethylation in Human Bladder Cancer," <i>Human Molecular Genetics</i> , Vol. 10, No. 23, 2001, Pgs. 2619-2626
AR	Bartolomei, M.S., et al., "Epigenetic Mechanisms Underlying the Imprinting of the Mouse <i>H19</i> Gene," <i>Genes & Dev.</i> 7(9), September 1993, Pgs. 1663-1673
AS	Taniguchi, T., et al., "Epigenetic Changes Encompassing the <i>IGF2/H19</i> Locus Associated with Relaxation of <i>IGF2</i> Imprinting and Silencing of <i>H19</i> in Wilms Tumor," <i>Proc. Natl. Acad. Sci.</i> , Vol. 92, March 1995, Pgs. 2159-2163

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AT	Catchpoole, D., et al., "Mutation Analysis of <i>H19</i> and <i>NAP1L4</i> (<i>hNAP2</i>) Candidate Gene and <i>IGF2</i> DMR2 in Beckwith-Wiedemann Syndrome," <i>J. Med Genet</i> , 37(3) March 2000, Pgs. 212-215
AU	Nishihara, S., et al., "Multipoint Imprinting Analysis in Sporadic Colorectal Cancers With and Without Microsatellite Instability," <i>Int. J. Oncol.</i> , 17(2), August 2000, Pgs. 317-322
AV	Hofmann, W.K., et al., "Loss of Genomic Imprinting of Insulin-Like Growth Factor 2 is Strongly Associated with Cellular Proliferation in Normal Hematopoietic Cells," <i>Exp. Hematol</i> , 30(4), April 2002, Pgs. 318-323
AW	Cui, H., et al., "Loss of Imprinting in Colorectal Cancer Linked to Hypomethylation of <i>H19</i> and <i>IGF2</i> ¹ ," <i>Cancer Research</i> , 62, November 15, 2002, Pgs. 6442-6446
AX	Vu, T.H., et al., "Symmetric and Asymmetric DNA Methylation in the Human <i>IGF2-H19</i> Imprinted Region," <i>Genomics</i> , 64(2) March 1, 2000, Pgs. 132-143
AY	Schoenherr, C.J., et al., "CTCF Maintains Differential Methylation at the <i>Igf2/H19</i> Locus," <i>Nat. Genet</i> , 33(1), January 2003, Pgs. 66-69.
AZ	Bell, A.C., et al., "The Protein CTCF is Required for the Enhancer Blocking Activity of Vertebrate Insulators," <i>Cell</i> , Vol. 98, August 6, 1999, Pgs. 387-396
BA	Schneider, D. T., et al., "Multipoint Imprinting Analysis Indicates a Common Precursor Cell for Gonadal and Nongonadal Pediatric Germ Cell Tumors ¹ ," <i>Cancer Research</i> , Vol. 61, October 1, 2001, Pgs. 7268-7276
BB	Uyeno, S., et al., " <i>IGF2</i> But not <i>H19</i> Shows Loss of Imprinting in Human Glioma ¹ ," <i>Cancer Research</i> , Vol. 56, December 1, 1996, Pgs. 5356-5359
BC	Yun, K., et al., "Analysis of <i>IGF2</i> Gene Imprinting in Breast and Colorectal Cancer by Allele Specific-PCR," <i>Journal of Pathology</i> , Vol. 187, 1999, Pgs. 518-522

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